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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
 NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
 NEWS 4 Apr 09 ZDB will be removed from STN
 NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
 NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
 NEWS 9 Jun 03 New e-mail delivery for search results now available
 NEWS 10 Jun 10 MEDLINE Reload
 NEWS 11 Jun 10 PCTFULL has been reloaded
 NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
 NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
 saved answer sets no longer valid
 NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
 NEWS 15 Jul 30 NETFIRST to be removed from STN
 NEWS 16 Aug 08 CANCERLIT reload
 NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 18 Aug 08 NTIS has been reloaded and enhanced
 NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
 now available on STN
 NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
 NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
 NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
 NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
 NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 27 Oct 21 EVENTLINE has been reloaded
 NEWS 28 Oct 24 BEILSTEIN adds new search fields
 NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
 NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
 NEWS 32 Nov 25 More calculated properties added to REGISTRY
 NEWS 33 Dec 02 TIBKAT will be removed from STN
 NEWS 34 Dec 04 CSA files on STN
 NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 36 Dec 17 TOXCENTER enhanced with additional content
 NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
 NEWS 38 Dec 30 ISMEC no longer available
 NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
 NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
 NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC
 NEWS 43 Feb 13 CANCERLIT is no longer being updated
 NEWS 44 Feb 24 METADEX enhancements
 NEWS 45 Feb 24 PCTGEN now available on STN

NEWS 46 Feb 24 TEMA now available on STN
 NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 48 Feb 26 PCTFULL now contains images

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 07:28:39 ON 03 MAR 2003

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:28:47 ON 03 MAR 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 FEB 2003 HIGHEST RN 496269-39-7
 DICTIONARY FILE UPDATES: 28 FEB 2003 HIGHEST RN 496269-39-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
 Uploading 10007235b.str

L1 STRUCTURE LOADED

=> d

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 07:29:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1538 TO ITERATE

65.0% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 28408 TO 33112

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 07:29:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 29427 TO ITERATE

100.0% PROCESSED 29427 ITERATIONS

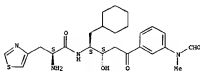
7 ANSWERS

SEARCH TIME: 00.00.02

L3 7 SEA SSS FUL L1

=> d scan

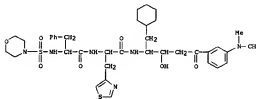
L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Formulae, 8-[3-{4-[[[5-amino-1-oxo-3-(4-thiazolyl)propyl]amino]-5-cyclohexyl]-2,4,6-trideoxy-L-threo-pentono]lphenyl]-N-methyl-, (S)- (PCI)
 MF C25 H34 N4 O4 S
 Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

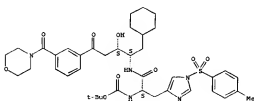
HOW MANY MORE ANSWERS DO YOU WISE TO SCAN? (1):6

L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Formulae, 8-[3-{5-cyclohexyl-2,4,5-trideoxy-4-[[[10-(4-morpholinylsulfonyl)-5-phenylamino]-3-(4-thiazolyl)-L-alanyl]amino]-L-threo-pentono]lphenyl]-N-methyl-, (PCI)
 MF C38 H50 N6 O6 S2



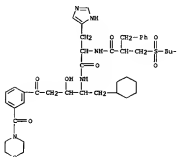
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Morpholine, 4-[3-{5-cyclohexyl-2,4,5-trideoxy-4-[[2-[[[1,1-dimethylthio]propyl]amino]-3-[[1-(4-methylphenyl)sulfonyl]-1H-imidazol-4-yl]-1-oxopropyl]amino]-L-threo-pentono]lbenzoyl]-, (S)- (PCI)
 MF C40 H53 N5 O9 S
 Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

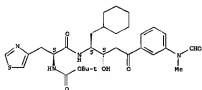
L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Morpholine, 4-[3-{5-cyclohexyl-2,4,5-trideoxy-4-[[2-[[[1,1-dimethylthio]propyl]amino]-3-[[1-(4-methylphenyl)sulfonyl]-1-oxo-3-phenylpropyl]amino]-3-[[1H-imidazol-4-yl]-1-oxopropyl]amino]-L-threo-pentono]lbenzoyl]-, [5-(R*,R*)]- (PCI)
 MF C42 H57 N5 O8 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Triamfenide, N-[3-[[3-cyclohexyl-2,4,5-trideoxy-4-[[2-[[1(1,1-dimethylsulfonyl)carbonyl]amino]-1-oxo-3-(4-thiazolyl)propyl]amino]-L-threo-pentamethylphenyl]-N-methyl-, (7S)-(SC1)
 MF C30 H42 N4 O6 S

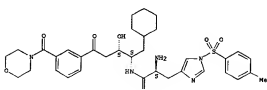
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

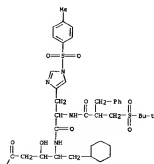
L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Morpholine, 4-[3-[[4-[[2-amino-3-[[1-[(4-methylphenyl)sulfonyl]-1H-imidazol-4-yl]-1-oxopropyl]amino]-4-cyclohexyl-2,4,5-trideoxy-L-threo-pentamethylphenyl]-, (8S)-(SC1)
 MF C33 H45 N5 O7 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Morpholine, 4-[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[2-[[2-[[1(1,1-dimethylsulfonyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-3-[[[(4-methylphenyl)sulfonyl]-1H-imidazol-4-yl]-1-oxopropyl]amino]-L-threo-pentamethylphenyl]-, (2S,7R)-(SC1)
 MF C49 H63 N5 O10 S2



PAGE 1-A



PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
148.15	148.36

FILE 'CAPLUS' ENTERED AT 07:29:38 ON 03 MAR 2003
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FILE COVERS 1907 - 3 Mar 2003 VOL 138 ISS 10
FILE LAST UPDATED: 2 Mar 2003 (20030302/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13
L4

1 L3

=> d ibib abs hitstr

14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 199149265 CAPLUS
 DOCUMENT NUMBER: 11749265
 TITLE: Preparation of caprilide resin inhibitors
 INVENTOR(S): Toyono, Tetsuo; Fujisawa, Toshihiro; Miyahara, Kunio;
 Nakamura, Masaharu; Hashimoto, Naofumi
 SOURCE: Shionogi and Co., Ltd., Japan
 PATENT ASSIGNEE(S): Sur. Pat. Appl., 117 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

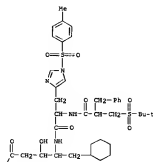
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 498641	A2	19920129	EP 1991-305763	19920626
EP 498641	A3	19930113		
US 5174926	B1	19930113	US 85, 97, GB, GR, IT, LI, LU, NL, SE	
CA 2046008	AA	19911229	CA 1991-2046008	19910619
US 5184008	A	19920116	US 1991-718492	19910626
AU 9179304	A1	19920102	AU 1991-79304	19910626
AU 640236	B2	19931104		
EP 58146	B1	19920228	EP 1991-1266	19910627
JP 05009162	B2	19930119	JP 1991-160764	19910607
JP 2997095	B2	20000111		
US 522615	A	19930629	US 1992-974212	19921110
US 527226	A	19931221	US 1992-974211	19921110
AU 9244890	A1	19931125	AU 1993-14890	19930826
AU 653682	B2	19931006		
PRIORITY APPL. INFO:			JP 1990-172850	A 19900628
OTHER SOURCE(S):		MARKET 11749265	JP 1991-718492	A3 19910624

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

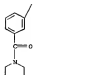
AB Title compde. [1] R1 = (substituted) cycloalkyl, alkanyl, alkynyl, heterocyclyl, heterocyclyl; R2 = (substituted) carbamoyl, aryl, heterocyclyl, alkyl, alkythiomethyl, alkyldithio; R3 = (substituted) aryl, 5- to 6-membered heterocyclyl; R4 = R5R6, R5R6, R5 = (substituted) aryl, (cyclo)alkyl, alkanyl, alkynyl, heterocyclyl; X = CH₂, NH, O, S, Y = CO, MGGD, were prepd. Thus, R-(tert-butoxycarbonyl)cyclohexylalinal was condensed with 4-oxopiperidine using HATU(III) and 18-crown-6 in THF to give a mixt. of alinal condensation isomers which was treated with HCl(IVa) and p-toluenesulfonic acid to give intermediate II (R5C = Me)(COCN). This was successively reduced with NaBH₄, desaturated with HCl or CF₃CO₂H, coupled with HOC-Hat(Bu)-OH (Cm = t-butyl), and oxidized with MnO₂ to give intermediate III. II: was N-deprotected with CF₃CO₂H, acylated with 3-tert-butyldimethylsilyl-2-benzoylbenzoic acid, and N'-protected with pyridinium hydrochloride to give title compd. IV. I at 15 mg/kg orally in monkeys pretreated with furosemide gave 3-5% NBN inhibition of enox. Several I at 1-100 mg/kg orally or i.v. effectively reduced blood pressure in monkey.

14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS (Continued)

diethylthiophenylsulfonyl)amino]-3-[[1-[(4-methylphenyl)sulfonyl]-1H-imidazo-4-yl]-1-methoxypropyl]amino]-4-threo-pentonyl]benzoyl], (S)-(R₁)-(R₂) (CA INDEX NAME)



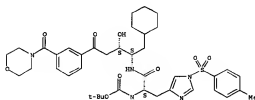
PAGE 2-A



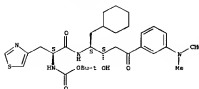
RM 141578-42-9 CAPLUS
 CN Farneside, 4-[[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[[1-[(4-methylphenyl)sulfonyl]-1H-imidazo-4-yl]-1-methoxypropyl]amino]-4-threo-pentonyl]phenyl]-N-methyl-, (S)-(R₁)-(R₂) (CA INDEX NAME)

14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT 141597-33-9P 141597-38-9P
 RU SPN (Synthetic preparation); FRP (Preparation)
 (Prep. of an intermediate for peptide resin inhibitor)
 XM 141578-33-3 CAPLUS
 CN Morpholine, 4-[[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[[1-[(4-methylphenyl)sulfonyl]amino]-3-[[1-[(4-methylphenyl)sulfonyl]-1H-imidazo-4-yl]-1-methoxypropyl]amino]-4-threo-pentonyl]benzoyl]-, (S)-(R₁)-(R₂) (CA INDEX NAME)
 Absolute stereochemistry.

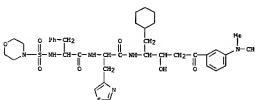


RM 141597-38-9 CAPLUS
 CN Farneside, 4-[[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[[1-[(4-methylphenyl)sulfonyl]amino]-3-[[1-[(4-methylphenyl)sulfonyl]amino]-4-threo-pentonyl]phenyl]-N-methyl-, (S)-(R₁)-(R₂) (CA INDEX NAME)
 Absolute stereochemistry.

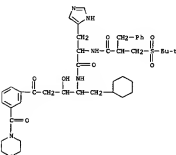


IT 141578-33-9P 141578-42-9P 141578-63-4P
 RU SPN (Synthetic preparation); FRP (Preparation)
 (Prep. of an intermediate for peptide resin inhibitor)
 RM 141578-33-9 CAPLUS
 CN Morpholine, 4-[[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[[1-[(4-methylphenyl)sulfonyl]amino]-3-[[1-[(4-methylphenyl)sulfonyl]amino]-4-threo-pentonyl]phenyl]-N-methyl-, (S)-(R₁)-(R₂) (CA INDEX NAME)

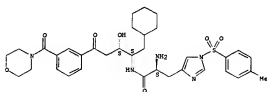
14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS (Continued)



RM 141578-63-4 CAPLUS
 CN Morpholine, 4-[[3-[[5-cyclohexyl-2,4,5-trideoxy-4-[[[1-[(4-methylphenyl)sulfonyl]amino]-3-[[1-[(4-methylphenyl)sulfonyl]amino]-4-threo-pentonyl]phenyl]-N-methyl-, (S)-(R₁)-(R₂) (CA INDEX NAME)

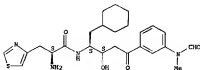


RM 141578-90-7 CAPLUS
 CN Morpholine, 4-[[3-[[4-[[2-[[2-[[1-[(4-methylphenyl)sulfonyl]-1H-imidazo-4-yl]-3-methoxypropyl]amino]-1-methoxy-3-phenylpropyl]amino]-3-[[1-[(4-methylphenyl)sulfonyl]amino]-4-threo-pentonyl]benzoyl]-, (S)-(R₁)-(R₂) (CA INDEX NAME)
 Absolute stereochemistry.



KN 141578-99-6 CAPLUS
 CN Fused 36, 9-[3-[4-[[[2-amino-1-oxo-3-(4-thiazolyl)propyl]amino]-5-cyclohexyl-2,4,5-trideoxy-L-threo-pentonoyl]phenyl]-9-methyl]-, [S]- (PCI)
 (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.79	154.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

FILE 'REGISTRY' ENTERED AT 07:31:26 ON 03 MAR 2003
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STRUCTURE FILE UPDATES: 28 FEB 2003 HIGHEST RN 496269-39-7
 DICTIONARY FILE UPDATES: 28 FEB 2003 HIGHEST RN 496269-39-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
 Uploading 10007235b.str

L5 STRUCTURE UPLOADED

=> d
 L5 HAS NO ANSWERS
 L5 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 15
 SAMPLE SEARCH INITIATED 07:31:50 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 18750 TO ITERATE

5.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 366817 TO 383183

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 07:31:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 369190 TO ITERATE

99.3% PROCESSED 366467 ITERATIONS 107 ANSWERS

100.0% PROCESSED 369190 ITERATIONS 107 ANSWERS
SEARCH TIME: 00.00.20

L7 107 SEA SSS FUL L5

=> fil calplus

'CALPLUS' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	302.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.65

FILE 'CAPLUS' ENTERED AT 07:32:28 ON 03 MAR 2003

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FILE COVERS 1907 - 3 Mar 2003 VOL 138 ISS 10

FILE LAST UPDATED: 2 Mar 2003 (20030302/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

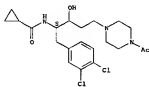
L8 40 L7

```
=> s 18 and aspartyl protease
      4501 ASPARTYL
        5 ASPARTYLS
      4504 ASPARTYL
            (ASPARTYL OR ASPARTYLS)
      73802 PROTEASE
      26974 PROTEASES
      85915 PROTEASE
            (PROTEASE OR PROTEASES)
        511 ASPARTYL PROTEASE
            (ASPARTYL(W) PROTEASE)
L9      2 L8 AND ASPARTYL PROTEASE

=> d ibib abs hitstr 1-2
```

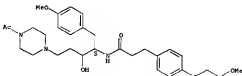

19 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)
(3.xi.)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



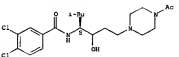
BN 248596-68-1 CAPLUS
CN D-glycero-Pentitol, 5-[(4-acetyl-1-piperazinyl)-1,2,4,5-tetraenoxy-2-[[[3-[(2-methoxyethoxy)phenyl]-1-oxopropyl]amino]-1-(4-methoxyphenyl)]-, (3.xi.)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



BN 248596-69-2 CAPLUS
CN Hexamethine, N-[[[15-4-[(4-acetyl-1-piperazinyl)-2-hydroxy-1-(2-methoxypropyl)butyl]-3,4-dichloro- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 199618139 CAPLUS
DOCUMENT NUMBER: 151157755

TITLE:
A Novel Bicyclic Enzyme Inhibitor as a Consensus Peptide-Mimetic for the Receptor-Bound Conformations of Twelve Peptidic Inhibitors of HIV-1 Protease
AIDS, Robert C.; March, Darren A.; Donley, Michael J.; Bergman, Doug A.; Abbenante, Giovanni; Fairlie, David P.

CORPORATE SOURCE:
Centre for Drug Design and Development, University of Queensland, Brisbane, 4072, Australia
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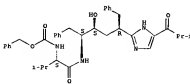
AB The X-ray crystal structures of 12 substrate-based peptidic inhibitors bound in the active site of the aspartic proteases, HIV-1 protease, have been compared. The inhibitor-binding modes of these inhibitors are remarkably similar despite their structural diversity and conformational flexibility. This prompted the design of a bicyclic peptidomimetic inhibitor with macrocyclic components in constrained conformations that are preorganized for receptor-binding. This inhibitor is a consensus conformational mimic of the protease-bound inhibitor structures with superior properties to peptidates, including stability to acid and peptidases as well as antiviral activity. Each of the 15- and 16-membered rings, formed through side-chain to backbone condensation, contain two protonically resistant amide bonds and either isoleucine or valine linked via a short alpha, space to tyrosine. The two cycles are connected by a hydroxyethylamide transition state isomorph. Molecular modeling and NMR studies indicate that each macrocycle is a highly constrained structural mimic of tripeptide components of linear peptide substrates/inhibitors of HIV-1 protease. Thus the bicyclic peptidomimetic superimposes upon and structurally mimics acyclic hexapeptide inhibitors and their analogs. This results in functional mimicry, as demonstrated by comparable inhibition of HIV-1 protease by acyclic and cyclic mole. at nanomolar concns. The rational design of cycles which fix receptor-bound conformations of bioactive peptides has potential applications in the structural mimicry of other bioactive peptides and may facilitate rational drug design.

1T 180348-92-9, SB 206343
AB: BAC (Biological activity or effector, except viruses); BSH (Biological study, unclassified); PRP (Properties); THD (Therapeutic use); B102 (Biological study) USES (Ivra)

(Bicyclic enzyme inhibitor as consensus peptide-mimetic for receptor-bound conformations of peptidic inhibitors of HIV-1 protease)
BN 180348-92-8 CAPLUS
CN Carbinic acid, (11b)-1-[[[15,26,48]-2-hydroxy-4-(4-(2-methyl-1-oxopropyl)-1H-imidazol-2-yl)-4-phenyl-1-phenylmethyl)pentyl]amino]carbonyl]-2-methylpropyl]-, phenylmethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)



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COST IN U.S. DOLLARS

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SESSION

FULL ESTIMATED COST

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316.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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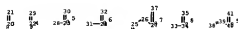
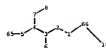
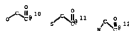
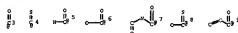
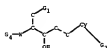
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chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 18 20 21 22 23 24 25 26
 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
 45 46 47 48 49 50 51 52 53 65 66

chain bonds :

1-2 1-66 2-3 3-4 3-6 4-5 4-7 5-65 7-8 9-10 11-12 12-13 18-66
 20-21 22-29 23-28 23-30 24-31 24-32 25-26 25-36 26-27 27-37
 33-34 34-35 38-39 39-40 40-41 42-43 43-44 44-45 46-47 47-48
 48-49 50-51 51-52 52-53

exact/norm bonds :

1-2 1-66 3-6 4-5 5-65 7-8 9-10 11-12 12-13 18-66 20-21 22-29
 23-28 23-30 24-31 24-32 25-26 25-36 26-27 27-37 33-34 34-35
 40-41 42-43 44-45 46-47 48-49 50-51 52-53

exact bonds :

2-3 3-4 4-7 38-39 39-40 43-44 47-48 51-52

G1:Cb,Ak

G2:[*1],[*2]

G3:N,Ak

G4:[*3],[*4],[*5],[*6],[*7],[*8],[*9],[*10],[*11],[*12]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
 9:CLASS

	10:CLASS	11:CLASS	12:CLASS	13:CLASS	18:CLASS	20:CLASS
21:CLASS	22:CLASS	23:CLASS	24:CLASS	25:CLASS	26:CLASS	27:CLASS
28:CLASS	29:CLASS	30:CLASS	31:CLASS	32:CLASS	33:CLASS	34:CLASS
35:CLASS	36:CLASS	37:CLASS	38:CLASS	39:CLASS	40:CLASS	41:CLASS
42:CLASS	43:CLASS	44:CLASS	45:CLASS	46:CLASS	47:CLASS	48:CLASS
49:CLASS	50:CLASS	51:CLASS	52:CLASS	53:CLASS	65:CLASS	66:Atom